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	Application No.	Applicant(s)	
Aladia a RAHawakiii	10/630,031	PAGE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Shane M. Thomas	2186	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due o	d ourse. THIS
1. X This communication is responsive to Amendment filed 5/1:	<u>1/2007</u> .		
2. X The allowed claim(s) is/are 21-35 (renumbered 1-15).			
3.	e been received. e been received in Application No cuments have been received in this is of this communication to file a reply in IENT of this application. itted. Note the attached EXAMINER' es reason(s) why the oath or declarate st be submitted. son's Patent Drawing Review (PTO-1) s Amendment / Comment or in the Comment or in	national stage application complying with the requirement of NC tion is deficient. 948) attached	uirements OTICE OF
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t 6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	he header according to 37 CFR 1.121(sit of BIOLOGICAL MATERIAL n	d). nust be submitted. N	·
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat		
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amendr		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	. 8. ⊠ Examiner's Stateme	ent of Reasons for Allov	vance

An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Greg Osterloth (Reg. No. 36,232) on 7/23/2007.

The following claim of the application has been amended as follows:

31. An embedded system, comprising:

a processing unit;

a persistent component storing data between boots of the embedded system; and

a state machine stored on the persistent component and executed by the processing unit

that, in conjunction with booting of the embedded system, assumes one of two states, the two

states being,

a normal state in which applications are executed, in which a write filter intercepts writes

to protected memory locations and redirects them to unprotected memory locations, in which the

writes to the protected memory locations are not persisted to the protected memory locations,

and in which critical writes to the protected memory locations are identified and described in at

least one update file located in the unprotected memory locations; and

a change state, entered across a boot from the normal state, in which the write filter is

cleared and critical writes described in the at least one update file are then applied to the write

filter, in which the write filter causes the critical writes to be stored in a write cache, and in

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which the critical writes stored in the write cache are subsequently persisted to the protected memory locations.

The following is an examiner's statement of reasons for allowance:

Claims 21-35 are allowable over the prior art of record.

As per independent claims 21 and 30, the prior art does not specifically teach, either alone or in combination, each limitation of the new claims. Specifically, the prior art of Page (U.S. Patent No. 6,523,103), cited to teach the previous set of claims, fails to teach invoking a write filter (wrfilter.sys) that incepts writes to the protected memory locations (first and second partitions) and stores the writes in a write cache; Page teaches only intercepting and caching these writes in the normal state (e.g. RUNBOOT state).

As per claim 31, likewise, the prior art of record does not teach the claim; the Page reference does not specifically teach during a change state, the clearing of the write filter, applying the writes stored in the update file to the write filter, in which the writes are stored in the write cache (during the change state), and the writes are then persisted to protected memory locations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance." Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shane M. Thomas whose telephone number is (571) 272-4188. The examiner can normally be reached on M-F 8:30 - 5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt M. Kim can be reached on (571) 272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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